

ABSTRACT**APPARATUS FOR THE CHARACTERISATION OF PIGMENTED SKIN LESIONS**

An apparatus is described, for the characterisation of pigmented skin
5 lesions, which comprises an instrument for the acquisition of a plurality of
images of the lesion, filmed with lighting at different wavelengths, means
designed to segment and parameterise each of said images, means designed to
extrapolate a data set from said images and input said data into a neural
network system, means designed to compare the results processed by said
10 neural network with the results obtained following similar processing of
known cases, and means designed to vary the weighting of each parameter
supplied to the neural network on the basis of said results.